Lionville Laboratory, Inc. INORGANIC ANALYTICAL DATA PACKAGE FOR TNUHANFORD 105-032 H3180

DATE RECEIVED: 05/24/05 LVL LOT # :0505L561

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS	ANALYSIS TIME
B1CR66							
BROMIDE BY IC	001	W	05LIC036	05/23/05	05/24/05	05/24/05	
BROMIDE BY IC	001 REP	W	05LIC036	05/23/05	05/24/05	05/24/05	
BROMIDE BY IC	001 MS	W	05LIC036	05/23/05	05/24/05	05/24/05	
CHLORIDE BY IC	001	W	05LICA36	05/23/05	05/24/05	05/24/05	
CHLORIDE BY IC	001 REP	W	05LICA36	05/23/05	05/24/05	05/24/05	
CHLORIDE BY IC	001 MS	W	05LICA36	05/23/05	05/24/05	05/24/05	
FLUORIDE BY IC	001	W	05LIC036	05/23/05	05/24/05	05/24/05	
FLUORIDE BY IC	001 REP	W	05LIC036	05/23/05	05/24/05	05/24/05	
FLUORIDE BY IC	001 MS	W	05LIC036	05/23/05	05/24/05	05/24/05	
NITRITE BY IC	001	W	05LIC036	05/23/05	05/24/05	05/24/05	1901
NITRITE BY IC	001 REP	W	05LIC036	05/23/05	05/24/05	05/24/05	1951
NITRITE BY IC	001 MS	W	05LIC036	05/23/05	05/24/05	05/24/05	2040
NITRATE BY IC	001	W	05LIC036	05/23/05	05/24/05	05/24/05	1913
NITRATE BY IC	001 REP	W	05LIC036	05/23/05	05/24/05	05/24/05	2007
NITRATE BY IC	001 MS	W	05LIC036	05/23/05	05/24/05	05/24/05	2056
PHOSPHATE BY IC	001	W	05LIC036	05/23/05	05/24/05	05/24/05	1901
PHOSPHATE BY IC	001 REP	W	05LIC036	05/23/05	05/24/05	05/24/05	1951
PHOSPHATE BY IC	001 MS	W	05LIC036	05/23/05	05/24/05	05/24/05	2640
SULFATE BY IC	001	W	05LICA36	05/23/05	05/24/05	05/24/05	
SULFATE BY IC	001 REP	W	05LICA36	05/23/05	05/24/05	05/24/05	
SULFATE BY IC	001 MS	W	05LICA36	05/23/05	05/24/05	05/24/05	
B1CR77							
BROMIDE BY IC	002	W	05LIC036	05/23/05	05/24/05	05/24/05	
CHLORIDE BY IC	002	W	05LICA36	05/23/05	05/24/05	05/24/05	
FLUORIDE BY IC	002	W	05LIC036	05/23/05	05/24/05	05/24/05	
NITRITE BY IC	002	W	05LIC036	05/23/05	05/24/05	05/24/05	2202
NITRATE BY IC	002	W	05LIC036	05/23/05	05/24/05	05/24/05	2218
PHOSPHATE BY IC	002	W	05LIC036	05/23/05	05/24/05	05/24/05	220 d
SULFATE BY IC	002	M	05LICA36	05/23/05	05/24/05	05/24/05	
AB QC:							
BROMIDE BY IC	MB1	W	05LIC036	N/A	05/24/05	05/24/05	

Lionville Laboratory, Inc. INORGANIC ANALYTICAL DATA PACKAGE FOR TNUHANFORD 105-032 H3180

DATE RECEIVED: 05/24/05 LVL LOT # :0505L561

CLIENT ID /ANALYSIS	LVL #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
BROMIDE BY IC	MB1 BS	W	05LIC036	N/A	05/24/05	05/24/05
CHLORIDE BY IC	MB1	W	05LICA36	N/A	05/24/05	05/24/05
CHLORIDE BY IC	MB1 BS	M	05LICA36	N/A	05/24/05	05/24/05
FLUORIDE BY IC	MB1	W	05LIC036	N/A	05/24/05	05/24/05
FLUORIDE BY IC	MB1 BS	W	05LIC036	N/A	05/24/05	05/24/05
NITRITE BY IC	MB1	W	05LIC036	N/A	05/24/05	05/24/05
NITRITE BY IC	MB1 BS	W	05LIC036	N/A	05/24/05	05/24/05
NITRATE BY IC	MB1	W	05LIC036	N/A	05/24/05	05/24/05
NITRATE BY IC	MB1 BS	W	05LIC036	N/A	05/24/05	05/24/05
PHOSPHATE BY IC	MB1	W	05LIC036	N/A	05/24/05	05/24/05
PHOSPHATE BY IC	MB1 BS	W	05LIC036	N/A	05/24/05	05/24/05
SULFATE BY IC	MB1	W	05LICA36	N/A	05/24/05	05/24/05
SULFATE BY IC	MB1 BS	W	05LICA36	N/A	05/24/05	05/24/05



Analytical Report

Client: TNU-HANFORD I05-032 H3180

LVL#: 0505L561

W.O.#: 11343-606-001-9999-00

Date Received: 05-24-05

INORGANIC NARRATIVE

1. This narrative covers the analyses of 2 water samples.

2. The samples were prepared and analyzed in accordance with the method checked on the attached glossary.

LvLI is NELAP accredited by the state of Pennsylvania and holds over 20 additional state accreditations. For a complete list of accrediting authorities and the corresponding analytes/methods, please contact your Project Manager.

- 3. Sample holding times as required by the method and/or contract were met (see the sample chronology summary for analyses times for short hold samples).
- 4. The results presented in this report are derived from samples that met LvLI's sample acceptance policy.
- 5. The method blanks were within the method criteria.
- 6. The Laboratory Control Samples (LCS) were within the laboratory control limits.
- 7. The matrix spike recoveries for Bromide, Chloride, Fluoride, Nitrite, Nitrate, Phosphate and Sulfate were within the 75-125% control limits.
- 8. The replicate analyses for Bromide, Chloride, Fluoride, Nitrite, Nitrate, Phosphate and Sulfate were within the 20% Relative Percent Difference (RPD) control limit.
- 9. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard copy package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

Iain Daniels

Labbratory Manager

Lionville Laboratory Incorporated

njp\i05-561

6/14/05 Date

The results presented in this report relate to the analytical testing and conditions of the samples upon receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 13 pages.

Lionville Laboratory Incorporated

WET CHEMISTRY

METHODS GLOSSARY FOR WATER SAMPLE ANALYSIS

	EPA /600	SW846	OTHER
Acidity	305.1		
AlkalinityBicarbonateCarbonate	310.1		
BOD	405.1		5210B (b)
Ion Chromatography:			
✓Bromide ✓Chloride /✓Fluoride	300.0	9056	
	300.0	9056	
SulfateFormateAcetateOxalate	300.0	9056	
Chloride	325.2	9251	
Chorine, Residual	330.5 (mod)		
Cyanide, Amenable to Chlorination	335.2	9010B	
Cyanide, Total	335.2	9010B 9014	ILMO4.0 (e)
Cyanide, Weak Acid Dissociable			412 (a) 4500CN-I (b)
COD	410.4(mod)		5220C (b)
Color	110.2		
Corrosivity by Coupon		1110(mod)	
Chromium VI		7196A	3500Cr-D (b)
Fluoride	340.2		4500-FC
Hardness, Calcium	215.2		
Hardness, Total	130.2		
Iodide			ASTM D19P202 (1)
Surfactant	425.1		
Nitrate-NitriteNitrateNitrite	353.2		
Ammonia	350.3		
Total Kjeldahl Organic Nitrogen	351.3	00.60	
Total Organic Inorganic Carbon	415.1	9060	
Oil & Grease	413.1	9070	
pHpH; paper	150.1	9040B 9041A	
Petroleum Hydrocarbons, Total Recoverable	418.1	20.0	
Phenol		20.2 9065 9066	
OrthoTotal Phosphate	365.2		4500-P B C
Salinity	160.5		210A (a) 2520 (b)
Settleable Solids	160.5	00207/0024	7 . 11 . 1.11.N
Sulfide	376.1		(acid soluble)
ReactiveCyanideSulfide	270.1	Section 7.3 (901	49030B)
Silica	370.1		
Sulfite	377.1	0028	
Sulfate	375.4	9038	
Specific Conductance	120.1	9050A	DE057.00 212E (a)
Specific Gravity	1.0	3.10	D5057-90 213E (a)
Synthetic Precipitation Leach		312	
TotalDissolvedSuspendedSolids	16012		
Total Organic Halides	450.1	9020B	
Turbidity	180.1		
Volatile Solids:	160.4		
TotalDissolvedSuspended	100.4	Method:	
Other:		Michiga:	

Lionville Laboratory Incorporated

METHOD REFERENCES AND DATA QUALIFIERS

DATA QUALIFIERS

- U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.
- * = Indicates that the original sample result is greater than 4x the spike amount added.

ABBREVIATIONS

MB = Method or Preparation Blank.

MS = Matrix Spike.

MSD = Matrix Spike Duplicate.

REP = Sample Replicate

LC = Laboratory Control Sample.

NC = Not calculated.

A suffix of -R, -S, or -T following these codes indicate a replicate, spike or sample duplicate analysis respectively.

ANALYTICAL WET CHEMISTRY METHODS

- 1. ASTM Standard Methods.
- 2. USEPA Methods for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020).
- 3. Test Methods for Evaluating Solid Waste (USEPA SW-846).
- a. <u>Standard Methods for the Examination of Water and Waste</u>, 16 ed, (1983).
- b. Standard Methods for the Examination of Water and Waste, 17 ed, (1989)/18ed (1992).
- c. <u>Method of Soil Analysis</u>, Part 1, Physical and Mineralogical Methods, 2nd ed, (1986).
- d. Method of Soil Analysis, Part 2, Chemical and Microbiological Properties, Am. Soc. Agron., Madison, WI (1965).
- e. USEPA Contract Laboratory Program, Statement of Work for Inorganic Analysis.
- f. Code of Federal Regulations.

INORGANICS DATA SUMMARY REPORT 06/13/05

CLIENT: TNUHANFORD 105-032 H3180 LVL LOT #: 0505L561

WORK ORDER: 11343-606-001-9999-00

					REPORTING	DILUTION
SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	LIMIT	FACTOR
======			=======	=====	========	=======
-001	B1CR66	Bromide by IC	0.25 u	MG/L	0.25	1.0
		Chloride by IC	14.8	MG/L	2.5	10.0
		Fluoride by IC	0.25 u	MG/L	0.25	1.0
		Nitrite by IC	0.25 u	MG/L	0.25	1.0
		Nitrate by IC	23.6	MG/L	2.50	10.0
		Phosphate by IC	0.25 u	MG/L	0.25	1.0
		Sulfate by IC	91.9	MG/L	2.5	10.0
-002	B1CR77	Bromide by IC	0.25 u	MG/L	0.25	1.0
		Chloride by IC	39.0	MG/L	2.5	10.0
		Fluoride by IC	0.25 u	MG/L	0.25	1.0
		Nitrite by IC	0.25 u	MG/L	0.25	1.0
		Nitrate by IC	64.9	MG/L	2.50	10.0
		Phosphate by IC	0.25 u	MG/L	0.25	1.0
		Sulfate by IC	143	MG/L	25.0	100

INORGANICS METHOD BLANK DATA SUMMARY PAGE 06/13/05

CLIENT: TNUHANFORD 105-032 H3180 WORK ORDER: 11343-606-001-9999-00

LVL LOT #: 0505L561

					REPORTING	DILUTION
SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	LIMIT	FACTOR
======		=======================================		=====		=======
BLANK10	05LIC036-MB1	Bromide by IC	0.25 u	MG/L	0.25	1.0
		Fluoride by IC	0.25 u	MG/L	0.25	1.0
		Nitrite by IC	0.25 u	MG/L	0.25	1.0
		Nitrate by IC	0.25 u	MG/L	0.25	1.0
		Phosphate by IC	0.25 u	MG/L	0.25	1.0
BLANK10	05LICA36-MB1	Chloride by IC	0.25 u	MG/L	0.25	1.0
		Sulfate by IC	0.25 u	MG/L	0.25	1.0

INORGANICS ACCURACY REPORT 06/13/05

CLIENT: TNUHANFORD 105-032 H3180 WORK ORDER: 11343-606-001-9999-00 LVL LOT #: 0505L561

		•	SPIKED	INITIAL	SPIKED		DILUTION
SAMPLE	SITE ID	ANALYTE	SAMPLE	RESULT	AMOUNT	%RECOV	FACTOR (SPK)
======			======	======			
-001	B1CR66	Bromide by IC	10.2	0.069	10.0	100.8	2.0
		Chloride by IC	115	14.8	100	99.7	20.0
		Fluoride by IC	9.9	0.18	10.0	97.3	2.0
		Nitrite by IC	10.2	0.25u	10.0	101.8	2.0
		Nitrate by IC	121	23.6	100	97.6	20.0
		Phosphate by IC	10.6	0.25u	10.0	106.0	2.0
		Sulfate by IC	193	91.9	100	101.0	20.0
BLANK10	05LIC036-MB1	Bromide by IC	4.9	0.25u	5.0	98.6	1.0
		Fluoride by IC	4.8	0.25u	5.0	96.9	1.0
		Nitrite by IC	4.98	0.25u	5.00	99.5	1.0
		Nitrate by IC	4.86	0.25u	5.00	97.3	1.0
		Phosphate by IC	5.3	0.25u	5.0	105.3	1.0
BLANK10	05LICA36-MB1	Chloride by IC	4.8	0.25u	5.0	95.5	1.0
		Sulfate by IC	5.0	0.25u	5.0	99.9	1.0

INORGANICS PRECISION REPORT 06/13/05

CLIENT: TNUHANFORD 105-032 H3180 LVL LOT #: 0505L561

WORK ORDER: 11343-606-001-9999-00

arc. 11343 000 001 3333	• •				
		INITIAL			DILUTION
SITE ID	ANALYTE	RESULT	REPLICATE	RPD	FACTOR (REP)
				======	
B1CR66	Bromide by IC	0.25u	0.25u	NC	1.0
	Chloride by IC	14.8	15.9	6.6	10.0
	Fluoride by IC	0.25u	0.25u	NC	1.0
	Nitrite by IC	0.25u	0.25u	NC	1.0
	Nitrate by IC	23.6	23.7	0.40	10.0
	Phosphate by IC	0.25u	0.25u	NC	1.0
	Sulfate by IC	91.9	92.7	0.84	10.0
	SITE ID	B1CR66 Bromide by IC Chloride by IC Fluoride by IC Nitrite by IC Nitrate by IC Phosphate by IC	INITIAL RESULT RESULT	SITE ID	SITE ID

Lionville Laboratory Use Only

Custody Transfer Record/Lab Work Request Page 1 of 1

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CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water	Lab ID	Client	: ID/Descrip	otion		Matrix QC Chosen (✓)		Date Collec		Time ollected		Acquirement of the Community of the Comm								TCCL	TO FL TO POA	ICNOS ICNOS	1987 1987		
O - Oil A - Air	001	BICRG(o			5 IMC	, ω	523	45 /	020									100	7	سمر	سر			
DS - Drum Solids DL - Drum Liquids	ap	77					7	1	recommended. Message	731										1	س.		سر ا		
L - EP/TCLP Leachate WI - Wipe X - Other F - Fish																									
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PNNL				:	CHAIN O	F CUSTODY/S	SAMPLE	ANALYSIS R	REQUEST	C.0		05-03 of 1	
Collegia, BRE	WINGT	MO	1			ct/Requester			Telephone No.	MSIN	FAX		<u>.</u>
SAF No.					Sampli	STEWART ing Origin		***************************************	509-376-5056 Purchase Order/Cha	rge Code		~**************************************	
I05-032 Project Title					HAN	NFORD SITE	C 1.100	· · · · · · · · · · · · · · · · · · ·	Ice Chest No ALS	5.716	Гетр.	·····	
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Lionville Labora	tory Incorpora	ted				VT. VEHICLE					206	1011	,
CERCLA						Prio	rity: 45 Days	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Offsite Property No.		3018	6914	
POSSIBLE SAMP	LE HAZARI)S/RE	WARKS					RUCTIONS Hold SAFS may be grouped into on deliverables to DL Stewart, F			y Exemption: exceed SDG cl		
Sample No.	Lab ID	*	Date	Time	No/Type Contain	ner		Sample Analys	sis			Preserva	ıtive
B1CR66		W	5.23.05	1020	1x500-mL P	IC Anions - 300.0						Cool 4C	
B1CR66		W	4	Ý	1x20-mL P	Activity Scan						None	
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FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By

Date/Time

PNNL					CHAIN OF	CUSTODY/S	SAMPLI	E ANALYSIS I	REQUEST	C.O.C. #	105-032-5
					····			W		Page	<u>1</u> of <u>1</u>
Conocial BHE	EWINGT	ON				Requester EWART			Telephone No. 509-376-5056	MSIN FA	X
SAF No.					Sampling	g Origin			Purchase Order/Char	rge Code	
I05-032 Project Title					HANF	ORD SITE	3 A		Ice Chest Non-	Temp.	
CERCLA 100 H Shipped To (Lab)). MA	Y 2005		3.4.41.	SAWS- H9	70	WALLET TO THE TOTAL TO THE TOTAL TOT	Ice Chest No. 5 Au 5	·//4	
Lionville Labora		ited				VEHICLE			Bill of Lading/Air Bil	INO. 7900 3018	3 6914
Protocol CERCLA						Prio	rity: 45 Days		Offsite Property No.		
POSSIBLE SAMF	PLE HAZARI	DS/RE	EMARKS				A, G, I, S, and	STRUCTIONS Hole W SAFS may be grouped into on & deliverables to DL Stewart,		Total Activity Exemptional batching, not to exceed SDG	n: Yes V No closure of 14 days.
Sample No.	Lab ID	*	Date	Time	No/Type Container	r		Sample Analy	sis		Preservative
B1CR77		W	5-23-05	1139	1x500-mL P	IC Anions - 300.0	· · · · · · · · · · · · · · · · · · ·			4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cool 4C
B1CR77		W	1		1x20-mL P	Activity Scan					None
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Relinquished By D.R. BREW	VINGTÖ	NO	K/HUW	MAN	2 3 2005 400	Received By	Print	Sign MAY 2	3 2005	Mat	rix * DS = Drum Solid
Relinquished By	50		**	5-0	Date/Time	Received By	a.l	5-24-05	Date/Time	SE = Sediment SO = Solid SL = Sludge	DI = Drum Liqui T = Tissue WI = Wine
Relinquished By	•				Date/Time	Received By			Date/Time	W = Water O = Oil A = Air	L = Liquid V = Vegetation X = Other
Relinquished By					Date/Time	Received By			Date/Time		

FINAL SAMPLE DISPOSITION

Disposal Method (e.g., Return to customer, per lab procedure, used in process)

Disposed By

Date/Time

Lionville Laboratory Incorporated SAMPLE RECEIPT CHECKLIST (SRC)

CLIENT: TNU- HANFORD

Date:

Purchase Order / Project# / SAF# / SOW# / Release #: ZoS-032

LvLI Batch #: 05057 56/

Sample Custodian: Theesand

	NOTE	EVDIATE ATT	DICCDEDANCE		vary -
	NOTE:	EXPLAIN ALL	DISCREPANCIE	S	
1.	Samples Hand Delivered or Shipped	Carrier	FOE	Airbill#	7900 3018 691
2.	Custody seals on coolers or shipping container intact, signed and dated?	□ Yes	□ No	□ No Seals	Comments
3.	Outside of coolers or shipping containers are free from damage?	□Yes	□ No		
4.	All expected paperwork received (coc and other client specific information) sealed in plastic bag and easily accessible?	□Yes	. □ No		
5.	Samples received cooled or ambient?	Temp &	-5°°C	Cooler# 5	AWS-114
6.	Custody seals on sample containers intact, signed and dated?	□ Yes	□ No	□ No Seals	
7.	coc signed and dated?	Ves	□ No		
8.	Sample containers are intact?	□ Yes	□ No		
. 9	All samples on coc received? All samples received on coc?	☑ Yes	□ No		
10.	All sample label information matches coc?	☐ Yes	□ No		
11.	Samples properly preserved?	□Yes	□ No		
12.	Samples received within hold times? Short holds taken to wet lab?	∐ Yes	□ No	•	
13.	VOA, TOC, TOX free of headspace?	□ Yes	□ No	AKO	
14.	QC stickers placed on bottles designated by client?	□ Yes	□ No	AMA	
15.	Shipment meets LvLI Sample Acceptance Policy? (Identify all bottles not within policy. See reverse side for policy)	D Yes	□ No		
16.	Project Manager contacted concerning discrepancies? name/date (or samples outside criteria)	□ Yes	□ No	Discrepancies	

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